

In the claims:

Following is a complete set of claims as amended with this Response.

1. (Currently Amended) A method comprising:
receiving at a receiving station a downlink broadcast burst from a base station;
determining timing for transmitting ~~sending~~ an uplink burst;
selecting a training sequence at the receiving station for the uplink burst from
among a plurality of training sequences; and
transmitting the uplink burst from the receiving station using the selected training sequence.
2. (Original) The method of Claim 1 wherein selecting the training sequence comprises randomly selecting from among a set of predetermined training sequences.
3. (Original) The method of Claim 2 wherein randomly selecting comprises generating a random number and applying the random number to select from among the set of predetermined training sequences.
4. (Currently Amended) The method of Claim 1 wherein selecting the training sequence comprises determining a digit from an identification number of the receiving station ~~user terminal~~ and applying the determined digit to select from among a set of predetermined training sequences.
5. (Original) The method of Claim 1 wherein receiving a downlink broadcast burst comprises receiving an indication of a set of predetermined training sequences for use in selecting a training sequence.

6. (Original) The method of Claim 1 wherein determining timing comprises determining timing of a broadcast channel on which the broadcast burst was received.

7. (Original) The method of Claim 1 wherein determining timing comprises determining nominal timing relative to a frame of the broadcast burst.

8. (Original) The method of Claim 1 wherein determining timing comprises determining timing on a broadcast channel on which the broadcast burst was received.

9. (Original) The training sequence of Claim 1 wherein the repetition of the core sequence comprises a repetition of the core sequence successively a specified number of times.

10. (Original) The training sequence of Claim 1 wherein the core sequence consists essentially of 12 symbols.

11. (Original) The training sequence of Claim 1 wherein the core sequence has a normalized cross-correlation of about $1/3$.

12. (Original) The training sequence of Claim 1 wherein the core sequence has a normalized autocorrelation of about $1/3$.

13. (Currently Amended) The training sequence of Claim 1 wherein the absolute value of the mean of the core sequence is about zero.

14. (Currently Amended) A machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a machine, cause the machine to perform operations comprising:

receiving at a receiving station a downlink broadcast burst from a base station;

determining timing for transmitting ~~sending~~ an uplink burst;

selecting a training sequence at the receiving station for the uplink burst from

among a plurality of training sequences; and

transmitting the uplink burst from the receiving station using the selected training sequence.

15. (Original) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising selecting the training sequence further comprise instructions for randomly selecting from among a set of predetermined training sequences.

16. (Original) The medium of Claim 15 wherein the instructions causing the machine to perform operations comprising randomly selecting further comprise instructions for generating a random number and applying the random number to select from among the set of predetermined training sequences.

17. (Currently Amended) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising selecting the training sequence further comprise instructions for determining a digit from an identification number of the receiving station ~~user terminal~~ and applying the determined digit to select from among a set of predetermined training sequences.

18. (Original) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising receiving a downlink broadcast burst further comprise instructions for receiving an indication of a set of predetermined training sequences for use in selecting a training sequence.

19. (Currently Amended) An apparatus comprising:
- a receiver to receive a downlink broadcast burst from a base station;
- a processor to determine timing for sending an uplink burst, and to select a training sequence from among a plurality of training sequences for the uplink burst; and
- a transmitter to transmit the uplink burst using the selected training sequence.
20. (Original) The apparatus of Claim 19 wherein the processor further selects the training sequence by randomly selecting from among a set of predetermined training sequences.
21. (Original) The apparatus of Claim 20 wherein the processor randomly selects by generating a random number and applying the random number to select from among the set of predetermined training sequences.
22. (Original) The apparatus of Claim 19 further comprising a register containing an identification number of the apparatus and wherein the processor selects by determining a digit from the register and applying the determined digit to select from among a set of predetermined training sequences.
23. (Original) The apparatus of Claim 19 wherein the receiver receives a downlink broadcast burst including an indication of a set of predetermined training sequences for use in selecting a training sequence.
24. (Original) The method of Claim 1 wherein determining timing comprises determining timing of a broadcast channel on which the broadcast burst was received.
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